



ARIN Technologies Inc.

Location Awareness for the Internet of Things

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Big organizations have hugely inefficient processes due to lack of knowledge

- Workers need to find tools, equipment and product in large facilities
 - 30% of Aerospace manufacturing worker time is spent searching!
 - 10% overage in number of tools and equipment available in a plant
- Managers need to know utilization of high value movable assets
 - Some assets are estimated to have only 50% utilization e.g forklifts
- Process improvement managers need to know how work actually gets done
- Safety managers need to implement processes and technologies for a safe environment while ensuring productivity
 - Each accident involving a worker can cost industry on average \$40,000
- P&L Owners need to ensure that operating costs are optimal while ensuring a safe working environment



Business processes need to know **where** something **is or has been** to derive value

	Number of Facilities	Target Use cases
Distribution centers	500 – 1 Million Sq ft 4,500 – 250k – 1 M Sq ft 40,000 – up to 250k Sq ft	Asset and equipment location Utilization rates for forklifts Safety – forklift accidents
Manufacturing	346,000 manufacturers	

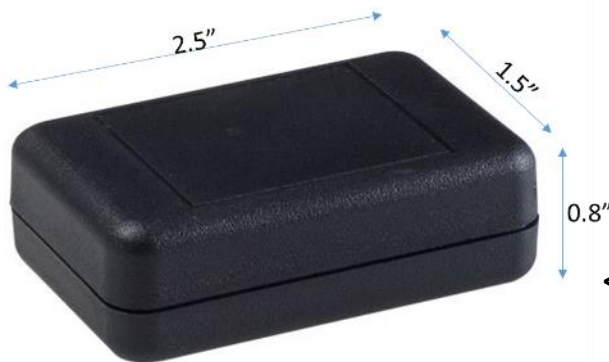
- Initial target market includes Distribution and Manufacturing due to common requirements
- Later stage markets include Retail, Healthcare, Underground Mining, DoD and Public Safety



Solution comprises of low cost hardware paired with a cloud based analytics engine

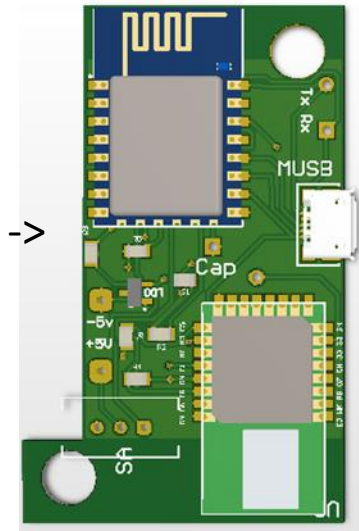


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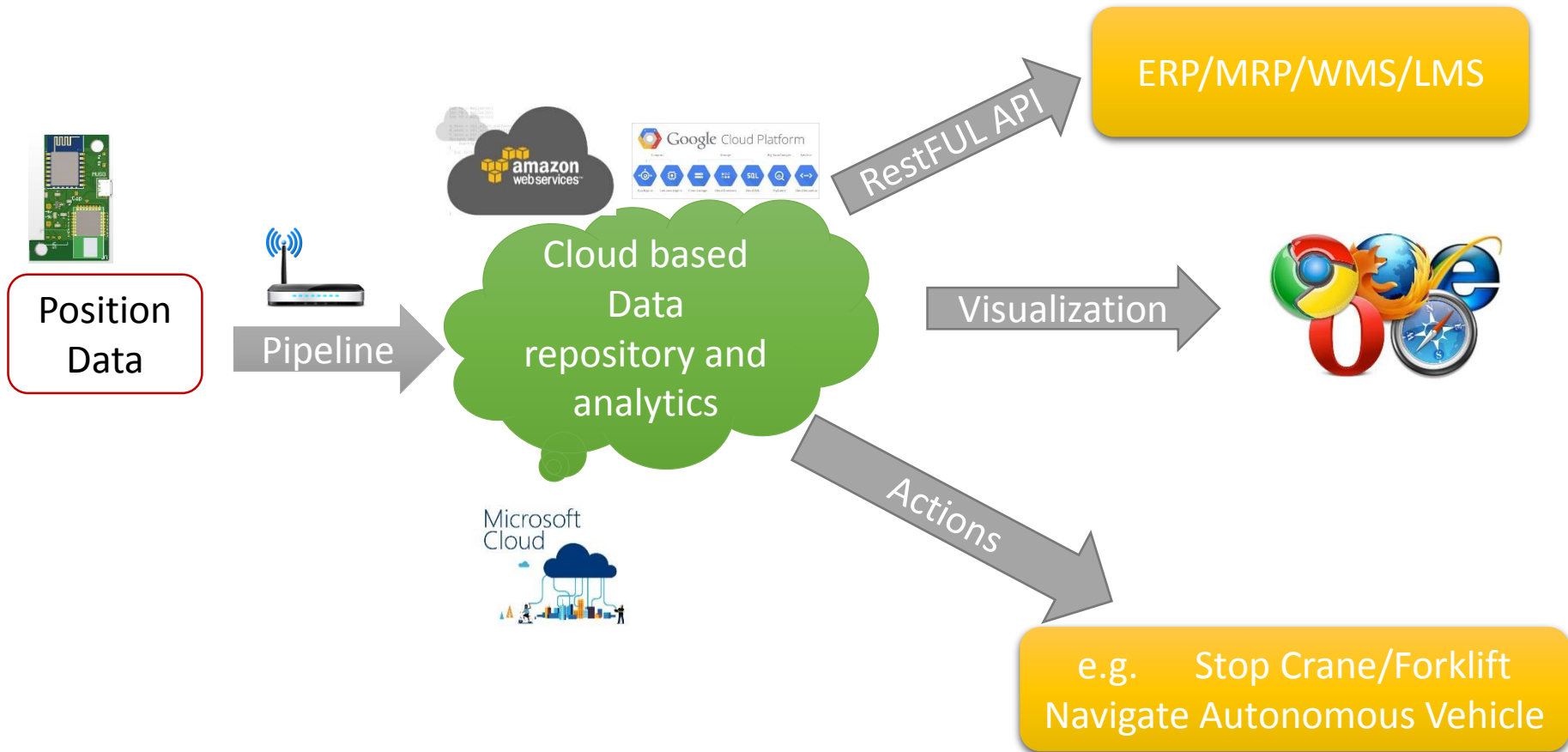
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Actual Electronics ->





Easy deployment and integration with enterprise systems through cloud





“Location as a Service” to enable many time saving and safety enhancing applications*

- Finding people, assets and other equipment
- Tracing a path for entities of interest
- Geo-fencing for one of more tracked entities
 - Warn appropriate authorities if a person is somewhere they should not be
 - Take action such as stop a gantry crane or stop a forklift if a person enters a prohibited area
 - Warn a construction worker when they get too close to a dangerous area

*In order of priority



Recurring revenue model with flexibility to support customers capital allocation goals

- Monthly fee based on type of service rendered
 - Find tagged entity
 - Insights/Reports based on historic data
 - Automated Actions through integration with business processes e.g. stop gantry crane or forklift if danger detected
- Hardware, Anchors and Tags can be distributed via
 - Lease hardware with usage commitment
 - Outright Purchase of hardware
- One time installation cost
 - Outsourced installation network
 - In-house installation team for specific type of customers

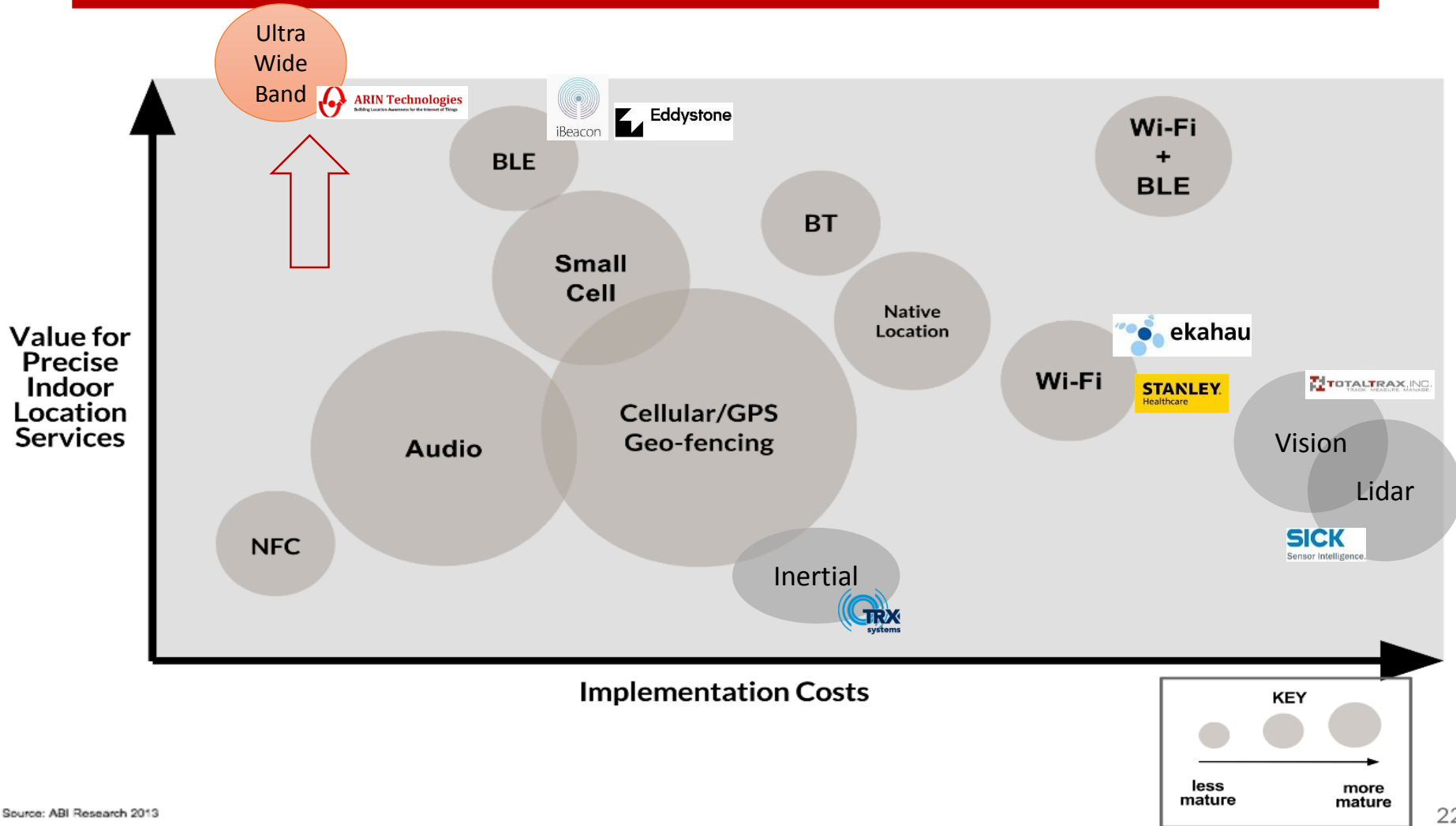


Finding traction in distribution centers and manufacturing plants

- Deployed at a e-commerce Fulfilment center
 - Daily pick path for order fillers
 - Time for each pick path
 - Distance travelled for each pick path
 - Inventory placement based on real time demand
- Fortune 200 company, pilot project
 - Forklift Safety
 - Spaghetti diagrams for lean operations
 - Utilization of forklifts
 - Many other use cases



We provide the highest value positioning in the indoor positioning ecosystem





Extremely qualified team making this complex technology easily deployable



- Aaron Acton, Technology:
 - 12 yrs. of experience in complex scientific product development
 - ANSYS, Astrobotic
 - U of Ottawa – BS Eng., CMU – MS Eng. Robotics Institute



- Perry Servedio, Product:
 - 11 yrs. of experience in fail safe product development
 - ANSYS, CalISO
 - U Pitt - BS Eng.



- Mark Imgrund, Operations:
 - Retd. VP Product engineering from high growth technology company
 - ANSYS
 - Cornell – BS Eng., MS Eng., CMU MBA



- Vivek Kulkarni, CEO:
 - 16 yrs. of experience in Product development, Marketing and Strategy
 - ANSYS, PTC, ESI Group
 - U Bombay - BS Eng., U Cincinnati – MS Eng., CMU – M.B.A





Mentored by an extremely successful group of entrepreneurs and executives



- Francois Estellon
 - CIO, Gardner Denver
 - VP Product Management, Caterpillar
 - CIO, VP Technology, Bucyrus
 - VP Business Development and Delivery, Sycor
 - Founder/CEO, Business Connection



- Joe Fairbanks
 - Business advisor, Iagnosis
 - Retd. EVP Sales & Support, ANSYS



- Stephan Mueller
 - COO ThrillMill
 - COO, Just between Friends
 - CEO, Lily & Strum
 - Board Member, Coro Pittsburgh & RustBuilt





Supported by local organizations



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